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CONFIDENTIAL

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4/27/64
3/16/64

5500-2725-6

4155-1030-6000

4155-1030-6000

1.

Development of an Experimental 1
Direct (Virtual) Image Viewer in
accordance with Research

Objectives dated 28 February
1964 and Quotation
dated 21 February 1964 Attached.

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NOTE: This Engineering model is
a carry-on from the successful
completion of Phase I Feasibility
Study with the same company.

DECLASS REVIEW by NIMA/DOD

PDS

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14 Jan 63 5500-9660-63

3155-1020-6000-730

3155-1020-6000-730

Feasibility study on "Ultra-High
Resolution Diffraction Viewer." 1

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25X1A Study to be made in two phases by
[redacted] in accordance
with ltr and cost estimate dated
13 November 1962 and technical
25X1A proposal [redacted] No. 6011-1 dated
2 October 1962.

25X1A (The device upon which this study
will be based is proprietary with
[redacted])

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13 November 1962

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Subject: Ultra-High Resolution Diffraction Viewer

We are pleased to resubmit our estimate for a program to determine the feasibility of an ultra-high resolution Diffraction Viewer as presented in our Proposal No. 6011 dated 2 October 1962 and as described at your facility on 6 and 8 November. In accordance with your request and our agreement, we have divided the program into two phases:

Phase I: Investigative Phase

Duration: Nine (9) weeks

Task: To conduct the necessary theoretical and experimental work required to ascertain and demonstrate feasibility. This effort will include work to select the optimum monochromatic light source and its intensity. In addition, it will include a scaled model of a pair of diffraction gratings. A report will be prepared and submitted upon completion of this phase.

Price: CPFF Amount 25X1A

Phase II: Breadboard Phase

Duration: Nine (9) weeks

Task: To design, construct, and assemble a transportable breadboard sufficient to demonstrate feasibility. The breadboard will be delivered to, and demonstrated at the customer's facility. To prepare design concepts, layouts, and specifications for an operational prototype. A report will be prepared and submitted upon completion of Phase II.

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Price: CPFF Amount

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It is recommended that the customer fund the entire program with a go-ahead only on Phase I. Phase II may be authorized at any time deemed appropriate. You will note that there is a slight increase in cost due to dividing the program into two distinct phases with no concurrent work savings. Should there be an overlap with Phase I, some savings may be passed on to the customer, the amount of which will be dependent upon the extent of the overlap.

We have been in contact with [redacted], who has informed us today that the University of Michigan, with which he is also associated, has been producing 18" to 20" square gratings, costing a "few" thousand dollars. He was very encouraging.

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I would like to express our appreciation for your consideration in this advanced study which is an area we feel we can make a significant contribution.

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